Y. S. Vavilov for many useful observations. The author thanks R. A. Latypova for doing the principal numerical computations.									E. N.	Chen	kovski has	aya an	ıd
figures	, 1 for	mula.		TE: 11									
i de di e <sup>re</sup>													

OKHOTHITSKIY, I.I., insh.; YURKOV, H.I., inzh.

Kethod for adjusting the relay IR-1. Avton., telem. i sviaz' 2 no.1; 28-29 Ja '58. (KIZA 11r1)

1. Chelkarskaya distantsiya signalizatsii i svyazi Orenburgskoy dorogi. (Electric relays)

YURKOV, C. C. Director of Lugansk Oblast' Veterinary Laboratory

Epizootiology of listerellosis in agricultural animals of Lugansk Oblast',

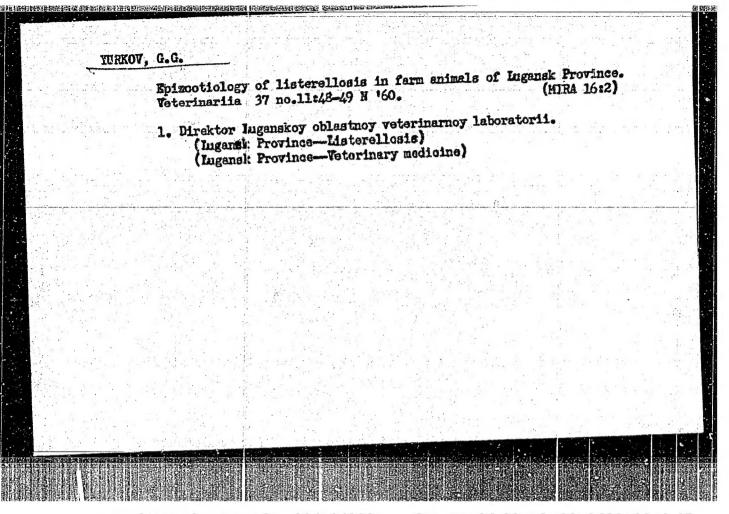
Veterinariya, Vol. 37, No. 11, p. 48, 1960.

PROVED FOR RELEASE: 09/19/2001

TURKOV, G.G., kand.veter.nauk; ANDRIYAN, Ye.A., kand.veter.nauk; VOLOSHCHUK,
L.G., nauchnys sotrudnik

Studying experimental leptospirosis in swine. Veterinariia
(2 no.9133-35 S \*65. (MIRA 18:11)

1. Luganskaya oblastnaya sel'skokhozyaystvennaya opytnaya
stantsiya.

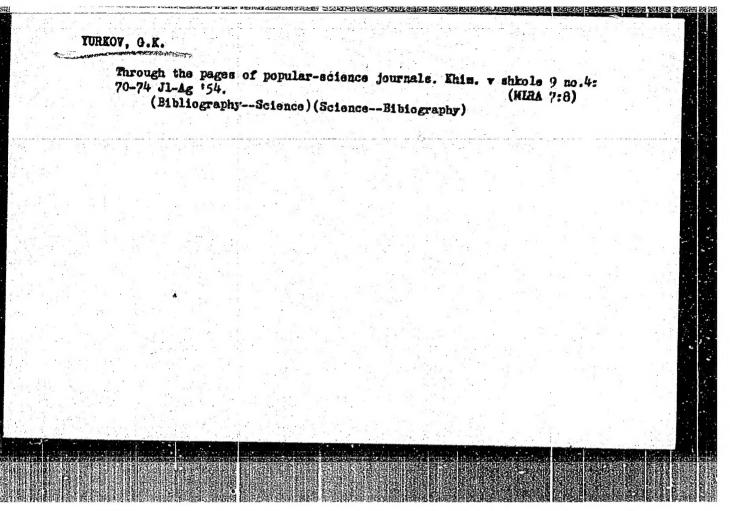


APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

MINHACHEV, N.V.; NAZAROV, V.P.; AGEYEV, L.S.; BORISOVICH, Yu.F.; LYUBASHENKO, S.Ya.; KORNEYEV, I.P.; MALAKHOV, Yu.A.; YURKOV, G.G.

Book reviews and bibliography. Veterinarila 40 no.8186-89 Ag '63.
(MIRA 17:10)

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.



YURKOV, Gaorgiy Kapitanovich; ; SAFONOVA, Irina Nikolayevna;
METEL'SKAYA, G.S. red.; MAKHOVA, N.N., tekhn. red.

[Water; manual for students in the upper grades] Voda; posobie dlie uchashchikhsia starshikh klassov.

Moskva, Uchpedgiz, 1962. 87 n.

(Water)

(Water)

SHEBALIN, D.V., polkovnik; YURKOV, G.L., mayor, red.; KARPOV, I.I., tekhn. red.

[Military topography] Voennaia topografiia; uchebnoe posobie. 12. izd. [n.p.] Voen.izd-vo narodnogo komissariata obor., 1946. 211 p. (MIRA 16:8) (Military topography)

MIKHAYLOV, N.I., doktor tekhn. nauk; NOVOSELOV, A.S., kand. tekhn nauk. Prininali uchastiye: YURKOV, G.M., tekhnik; AMEL'KINA, E.V., tekhnik; RAZUMOV, L.D., otv. red.; VOLODARSKAYA, V.Ye., red.

[Regulations governing the construction and repair of overhead communication lines and wire broadcasting networks] Pravila stroitel'stva i remonta vozdushnykh linii sviazi i radiotransliatsionnykh setei. Moskva, Sviazi-izdat. Ft.4. 1962. 109 p. (MIRA 17:3)

1. Russia (1923- U.S.S.R.) Ministerstvo svyazi.

Opyt bor'by s poterysmi na proizvodstve. Tusev. khrustal'nyy zavod).

Legkaya prom-st', 1949, no. 11, s. 10-11

sov/76-33-6-20/44

5(4) AUTHORS:

Yurkov, G. H. Brounshteyn, B. I.,

TITLE:

Computation of Thermodynamic Functions of Diatomic Ideal Gases, the Molecules of Which Are in the 37 Electron State (Vychisleniye termodinamicheskikh funktsiy dvukhatomnykh ideal'nykh gazov, molekuly kotorykh nakhodyatsya v 3n elek-

tronnom sostoyanii)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 6, pp 1289-1298

(USSR)

ABSTRACT:

A computation method was worked out, which is more accurate than the one suggested by Gordon (Ref 1), and which serves for the computation of thermodynamic functions of diatomic ideal gases, the molecules of which are in the 77 electron state (regular and inverse), with an arbitrary bond type according to Hund. The two cases of an a and b bond according to Hund (of high and low temperature) are considered, and it is stated inter al that a correction according to Bud6 (Ref 2) into the equation (1) by Hill and van Vleck (Ref 3) leads to a wrong derivation; hence, this correction

Card 1/2

CIA-RDP86-00513R001963210019-9' APPROVED FOR RELEASE: 09/19/2001

SOV/76-33-6-20/44 Computation of Thermodynamic Functions of Diatomic Ideal Gases, the Molecules of Which Are in the 3n Electron State

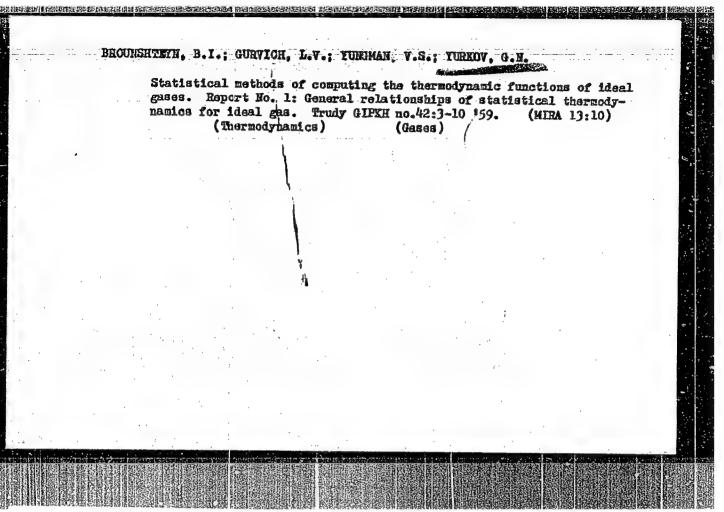
> must be rectified. Some new and more simple computation equations (than those by Gordon) are derived (45) - (52), (9), (34) - (36) and on the strength of the example of the moleoules C, and TiO the values of free energy and entropy are computed; they are furthermore computed according to two other methods and compared (Table 2). There are 2 tables

and 10 references, 3 of which are Soviet.

ASSOCIATION: Institut prikladnoy khimii, Leningrad

(Institute of Applied Chemistry, Leningrad)

SUBMITTED: November 13, 1957



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

BROUNSHTEIN, B.I.; GURVICH, L.V.; YUNGMAN, V.S.; YURKOV. G.N.

Statistical methods of computing the thermodynamic functions of ideal gases. Report No. 2: Expression for the statistical sum based on the states of diatomic molecules. Nathod of direct summation based on the levels of diatomic molecules. Truly GIFKH no.42:11-20 159.

(Gases) (Thermodynamics)

PROUNSHTEYN, B.I.; GURVICH, L.V.; YUNGMAN, V.S.; YIMKOV, G.H.

Statistical methods of computing the thermodynamic functions of ideal gases. Report 3: Approximate methods of calculating the statistical sum from the rotational states of diatomic molecules. Trudy GIPKH no.42:21-50 159. (HIRA 13:10)

(Thermodynamics)

(Gases)

s/081/61/000/012/004/028 B105/B202

AUTHORS:

Brounshteyn B. I., Yurkov, G. N.

TIPLE:

Statistical methods of calculating thermodynamic functions of ideal gases. Communication IV. Approximation methods for calculating the statistical sum of the vibrational and rotational levels of diatomic molecules

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 12, 1961, 62 abstract 126409 (Sb. tr. Gos. in-ta prikl. khimii, 1960, vyp. 46, 3-14.)

TEXT: In continuation of a paper published earlier (Communication III, RZhKhim, 1960, No. 12, 46007) the authors describe approximation methods for calculating statistical sums of the vibrational and rotational levels of the energy of the molecules in  $^{1}\Sigma_{-}, ^{2}\Sigma_{-}, ^{3}\Sigma_{-}, ^{2}\Pi_{-}$  and  $^{3}\Pi_{-}$  states. The calculations were made by the method of A. R., Gordon, C. Barnes ("J. Chem. Phys.", 1933, 1, 297) for all given states, by the method of L. S. Kassel ("J. Chem. Phys.", 1933, 1, 576; "Chem. Rev.", 1936, 18, 277) for the  $^{1}\Sigma$  electron state, and by the method of D. Mayer, M. Geppert-Mayer Card  $^{1/2}$ 

CIA-RDP86-00513R001963210019-9" APPROVED FOR RELEASE: 09/19/2001

Statistical methods of calculating ...

S/081/61/000/012/004/028 B105/B202

(Statistische Mechanik. IL, 1952) for the State. The authors obtained calculation formulas. It is emphasized that the generalization of the methods of Kassel and Mayer - Geppert-Mayer for other electron states is analogous to the mentioned calculations of these states made by the method of Gordon and Barnes. [Abstracter's note: Complete translation.]

Card 2/2

s/081/61/000/011/002/040 B105/B203

24.6110

Brounshteyn, B. I., Yurkov, G. N.

AUTHORS: TITLE:

Determination of effective values of vibration constants of diatomic molecules for calculating thermodynamic functions

of ideal gases at high temperatures

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 11, 1961, 10, abstract 11 5 68 (Sb. tr. Gos. in-ta prikl. khimii, 1960, vyp. 46,

TEXT: The authors describe a method of calculating the coefficient of the extrapolation equation for the energy of high vibrational levels of a diatomic molecule conjugated with the equation for the energy of experimentally determined lower levels, which equation corresponds to the demand for convergence of the vibrational levels to the limit of dissociation. They also suggested a method of approximation of the energy of vibrational levels by means of a power function of the quantum number V which is based on the use of the method of least squares by introducing statistical weights for each level. The values of effective Card 1/2

24813 S/081/61/000/011/002/040 Determination of... B105/B203

vibration constants obtained by the method suggested depend on temperature. It is assumed to be convenient to utilize the thus found approximation equations for the energy of vibrational levels when making a great number of calculations of thermodynamic functions in the given interval of temperatures, or for estimating the calculation errors. Examples are given for calculations of H<sub>2</sub> and HF. [Abstractor's note: Complete translation.]

Card 2/2

\$/058/61/000/004/009/042 A001/A101

11.5300

AUTHORS:

Brounshteyn, B.I., Yurkov, G.N.

TITLE:

Determination of effective values of oscillation constants of diatomic molecules for calculating thermodynamic functions of per-

fect gases at high temperatures

PERIODICAL:

Referativnyy zhurnal. Fizika, no 4, 1961, 160, abstract 4V69 ("Sb. tr. Gos. in-ta prikl. khimii", 1960, no 16, 29 - 42)

TEXT: The authors developed a method of approximate calculation of higher oscillation levels based on the known values of lower levels and experimentally found value of the molecule dissociation energy. They propose a method of determining "effective constants" which assure the greatest precision of calculating thermodynamic functions at the given numbers of constants. "Effective constants" proved to be dependent on temperature. The method is exemplified by calculating molecules of H2 and HF.

JB

[Abstracter's note: Complete translation.]

Card 1/1

CHILIFTON RECURSION OF THE PROPERTY OF THE PRO

GURVICH, Lev Veniaminovich, kand. khim. nauk; KHACHKURUZOV, Georgiy Akopovich, kand. khim. nauk; HFDVEDEV, Vadim Andreyevich, kand. khim. nauk; VEYTS, Inessa Veniaminovna, kand. khim. nauk; BERCMAN, Georgiy Andreyevich; YUNCLAN, Vladimir Stepanovich; RTISHCHEVA, Nina Petrovna; KURATOVA, Lidiya Fedorcvna; YURKOV, Georgiy Nikolayevich; KANE, Amaliya Abramovna; YUDIN, Boris Fedorovich; BRCUNSHTEYH, Boris Isidorovich; BAYBUZ, Viktor Feodoseyevich; KVLIVIDZE, Valeriy Aleksandrovich; FROZOROVSKIY, Yevgeniy Aleksandrovich; VOROB'YEV, Boris Aleksandrovich; GERASIMOV, Ya.I., retsenzeng; SKURATOV, S.M., prof., retsenzent; GLUSHKO, V.P., akad., otv.red.; KHACHKURUZOV, G.A., red.; GUROV, K.P., red.izd-va; LAUT, V.G., tekhn.red.

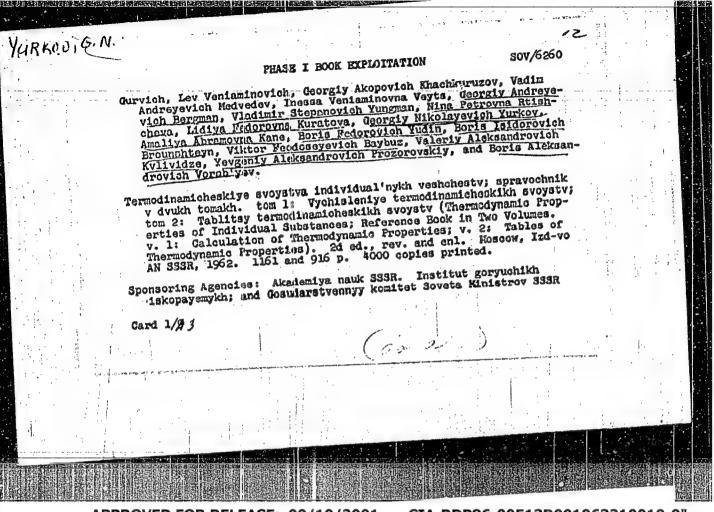
[Thermodynamic properties of individual substances; reference guide in two volumes] Termodinamicheskie svoistva individual - nykh veshchestv; spravochnik v dvukh tomakh. Izd.2., polnostiu perer. i rasshirennoe. Pod red. V.P.Glushko (otv. red.) i dr. Moskva, Izd-vo Akad. nauk SSSR. Vol.1. (Calculation of thermodynamic properties] Vychislenie termodinamicheskikh svoistv. 1962. 1161 p. Vol.2. [Tables of thermodynamic properties] Tablitsy termodinamicheskikh svoistv. 1962. 916 p. (MIRA 15:10)

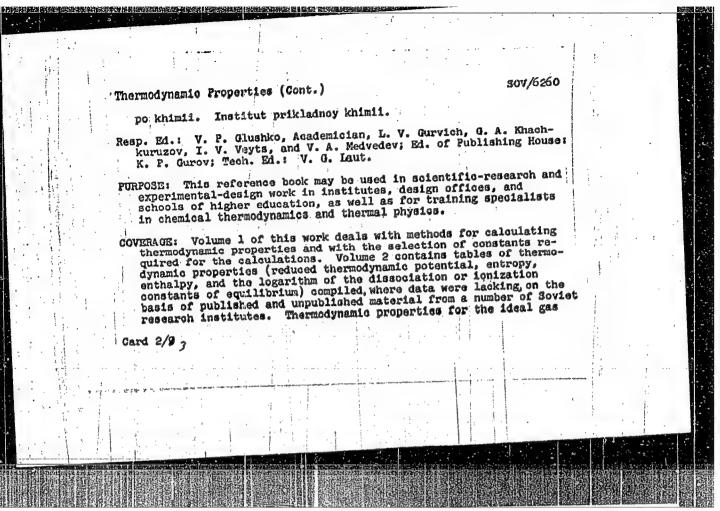
# BROUNSHTEYN, B.I.; YURKOV, G.N.

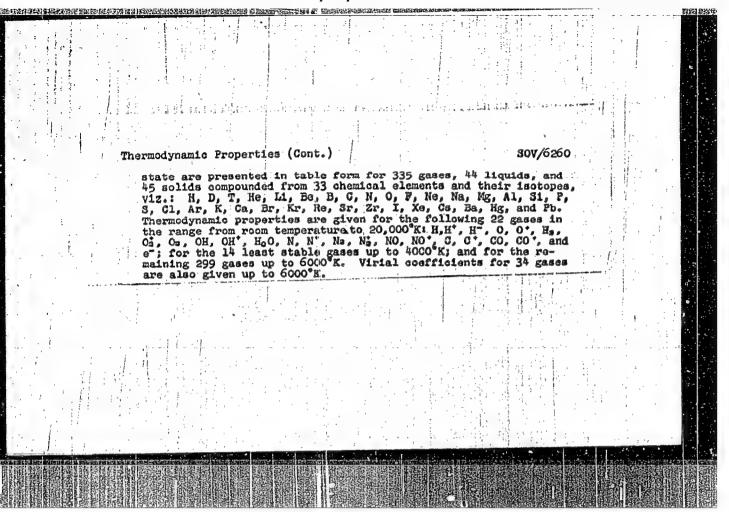
Critical remarks concerning P.I.Artym's article "Calculation of thermodynamic functions of ideal gases from spectroscopic data."

Zhur.fiz.khim. 36 no.5:1110-1112 My '62. (MIRA 15:8)

1. Gosudarstvennyy institut prikladnoy khimii.
(Gas dynamics) (Artym, P.I.)





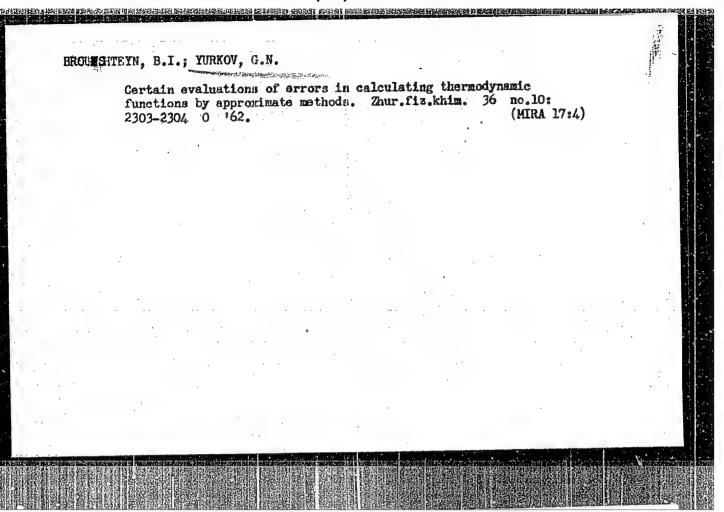


APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

BROWNSHITEYN, B. S.; YURKOV, G.H.

Approximate method for the calculation of the thermodynamic functions of diatomic ideal gases at high temperatures taking the higher anharmonicity constants into account. Thur. fiz. khim. 36 no.621191-1197 Je 62 (MIRA 1727)

1. Ieningradskiy institut prikladnoy khimii.



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

MEDVEDEV, V.A.; YUNGMAN, V.S.; VOROB'YEV, A.F.; GURVICH, L.V.;

BERGMAN, C.A.; REZEITSKIY, L.A.; KOLESOV, V.P.;

GAL'CHENKO, G.L.: KHODEYEV, Yu.S.; KHACHKURUZOV, G.A.;

SOKOLOV, V.B.; GOROKHOV, L.N.; MONAYENKOVA, A.S.;

KOMAROVA, A.F.; VEYTS, I.V.; YUNKOV, G.N.; MALENKOV, G.G.;

SMIRNOVA, N.L.; GLUSHKO, V.P., akademik, otv. red.;

MIKHAYLOV, V.V., red.; KARAPET YANTS, M.Kh., red.

[Thermal constants of substances; reference book in ten numbers] Termicheskie konstanty veshchestva; spravochnik v desiati vypuskakh. Moskva, No.1. 1965. 144 p. (MIRA 18:7)

1. Moscow. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii.

BROUNSHTEYN, B.1.; YURKOV, G.N.

Statistical methods of calculating the thermodynamic functions of ideal gases. Fart 5: Approximate methods of calculating the thermodynamic functions of diatomic gases. Trudy GIPKH 40.491

5-19 162. (MIRA 17:11)

ORLOV, P.G.; TURKOV, I.A.

Calculating the foundations of drilling masts. Mash. i neft, obor.
no.1:3-6 '65.

1. Barnaul'skiy zavod geologorazvedochnogo oborudovaniya.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

YURKOV, I. S.

The first N. A. Minkevich prize was given to the following teams:
Candidate of Technical Sciences A. D. Assonov, Engineers N. I. Tereshchin,
V. F. Nikonov, D. I. Kostenko, S. G. Harinchev, I. S. Yurkov, N. N. Inshakova,
N. N. Yanchuk, A. A. Bulatnikov and G. Ye. Libvin (Automobile Works iment
Likhachev) for their paper "Investigation and Introduction of the Process of
Nitrocementation by Direct Isothermal Hardening in an Alkali Inside Muffleless
Equipment", their design of a muffleless furnace heated by vertical radiation
tubes is of interest.

。 1985年 - 1985年 -

Results of the 1958 Competition for Obtaining imeni D. K. Chernov and imeni N. A. Minkevich Prizes, Hetallovedeniye i termicheskaya obrabotka metallov, 1959, No. 6, pp 62-64

G-2

YURKOV, L.F.

USSR/ Analytical Chemistry. Analysis of Inorganic Substances.

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27142

Author : V.L. Indenbom, Ts.A. Karchmar, L.F. Yurkov,

B.M. Glukhovskoy.

Fast Method of Determination of Potassium Oxide Title

in Glass by Radioactivity.

Zavod. laboratotiya, 1956, 22, No. 11, 1293. Orig Pub:

The determination of potassium oxide in glass was radioactive isotope K<sup>4</sup>O. The activity was measured with an installation of the type B with a AS-2 counter. In order to eliminate adjustments for self-absorption, the thickness of the specimen surrounding the counter must be  $\geq 0.4$  g/cm<sup>2</sup>. Abstract:

The error of the determination of K20 in glass

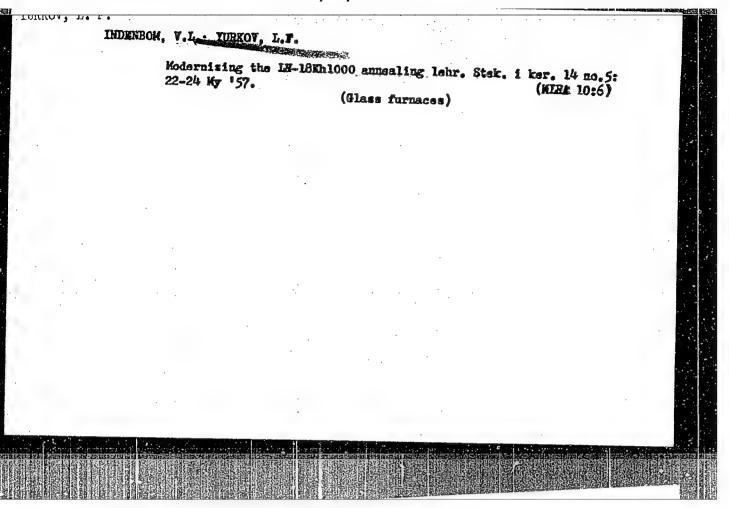
Card 1/2

USSR/ Analytical Chemistry. Analysis of Inorganic G-2 Substances.

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27142.

is from 0.1 to 0.15%. If the content of K<sub>2</sub>0 was known, the digression of the expansion ratio of glass from the given ratio allows for the determination also of the content of Na<sub>2</sub>0. The complete determination is carried out in about 1 hour.

Card 2/2



SOV/72-58-10-14/18

AUTHORS:

Veklich, P. M., Slivinskiy, I. G., Yurkov, L. F.

TITLE:

Heating Stove for Glass Parts of Electronic Fluorescent Tubes (Nagrevatel'naya pechi dlya steklyannykh detaley

elektronno-luchevykh trubok)

PERIODICAL:

Steklo i keramika, 1958, Nr 10, pp 44-45 (USSR)

ABSTRACT:

The authors of this article constructed some gas stoves for these parts at the Moskovskiy elektrolampovyy zavod (Moscow Incandescent Bulb Factory). The stoves were built for the heating of cones and shades prior to their welding. Such a stove (Fig 1) has two muffle channels, a lower and an upper one. The heating surfaces of the muffle channels are produced of carborundum plates of the dimensions 303 x 343 mm. The construction makes it possible to heat the parts to be welded sufficiently quickly, and also to carry out repair work of the muffle without putting the stove to pieces. The waste gases from the lower muffle are directed into the upper one; they heat the latter and then are sucked off by a fan. To improve the temperature control the muffle channels are separated into 5 individual sections by walls.

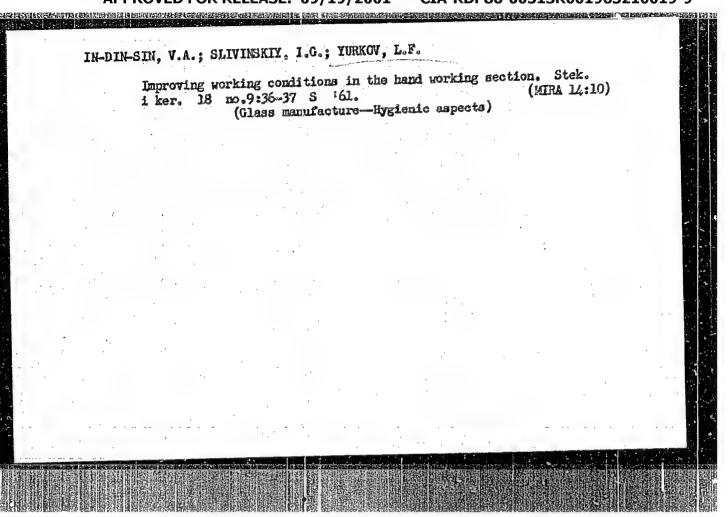
Card 1/2

SOV/72-58-10-14/18 Heating Stove for Glass Parts of Electronic Fluorescent Tubes

The parts to be heated move continuously in the operation chamber of the stove on a conveyer belt. The heating cycle may be adjusted within 10 to 30 minutes at a length of the operation chamber of the stove of 10 m; this is done by controlling the velocity of the conveyer belt. The stove temperature conditions are controlled by means of thermocouples. From figure 2 the course of the temperature in the stove may be seen. This simple construction makes it possible to the glass factories to produce them by themselves. There are 2 figures.

ASSOCIATION: Moskovskiy elektrolampovyy zavod (Moscow Incandescent Bulb Factory)

Card 2/2



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

NOVIKOV, M.D.; SLIVINSKIY, I.Q.; YURKOV, L.F.

Mechanization of draining and granulating melted glass when stopping a pot furnace for repair. Stek.i ker. 20 no.2:35 F '63. (MIRA 16:2)

1. Moskovskiy elektrolampovyy zavod.
(Glass furnaces)

YURKOV, L.F., inzh.

Paculiarity of the melting of lead glass and its connection with the thermodynamic characteristics of some lead silicates. Stek. i ker. 20 no.7:8-11 Jl '63. (MIRA 17:2)

1. Moskovskiy elektrolampovyy zavod.

GINZBURG, D.B., doktor tekhn. nauk [deceased]; RAPOPORT, A.Ya., inah.; SLIVINSKIY, I.G., inzh.; YURKOY, L.F., inzh.; EL'KIN, G.B., inzh. Investigating processes of manufacturing high-lead glass. Stek. 1 ker. 22 no.12:9-11 D \*65. (MIRA 18:12)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

YURKOV, N. I. "Morphology of the orific of the main pancreatic duct in cattle,"
Trudy Stavrop. s.-kh. in-ta, Issue 3, 1948, F. 235-50 -- Eibliog: 9 items
So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

YURKOV, M. J.

Yurkov, M. I. "Waristion of the form of the pancreas in cattle," Trudy Stavrop. s.-kh.

in-ta, Issue 3, 1948, p. 129-60 -- Libliog: 31 items

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

BUDNIKOV, P.P.: YURKOV, M.I.

Cathedeluminescence of synthetic silicates and aluminates, Dep.AE URSR ne.4:3-11 48. (MLRA 9:9)

1. Diyaniy chlon AN UESR (for Budnikav). 2. Ordena Leniua khimike-tekhnelegichniy institut imeni D.I. Hendeleyeva. (Cathede ray tubes) (Silicates) (Aluminates)

YUEKOV, N.N.; ZAGORSKAYA, Ye.P., kandidat tekhnicheskikh nauk.

Heasures to control the noise of roving machines. Tekst.prom.
14 no.8:48-52 Ag '54.

1. Olavnyy inshener fabriki "Oktyabr'skaya." (for Yurkov)

(Textile machinery)

GUS'KOVA, A.K.; YURKOV, N.N.; KIRYUSHKIN, V.I. (Moskva)

Compensatory reactions in insufficiency of the brain's blood supply. Zhur.nevr.i piakh. 61 no.10:1457-1462 '61.

(MIRA 15:11) (ELECTROENCEPHALOGRAPHY) (CEREBROVASCULAR DISEASES)

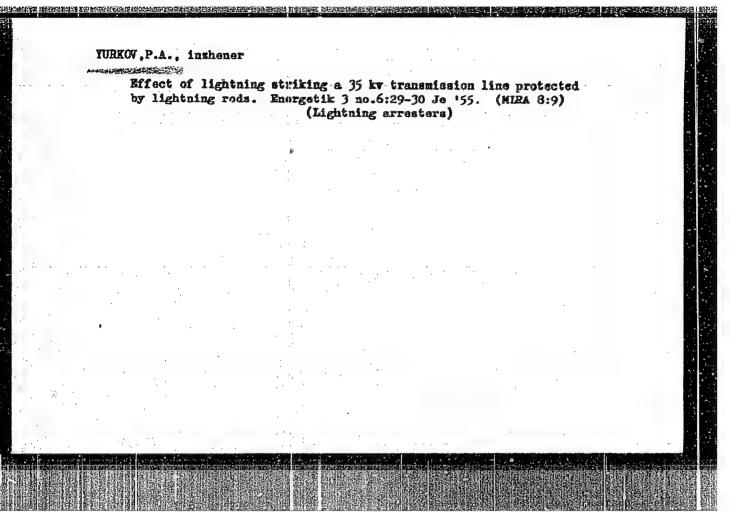
Therapeutic effectiveness of furazolidon in the treatzent of acute dysentery. Vrach. delo no. 1:113-114 '61. (MIRA 14:4)

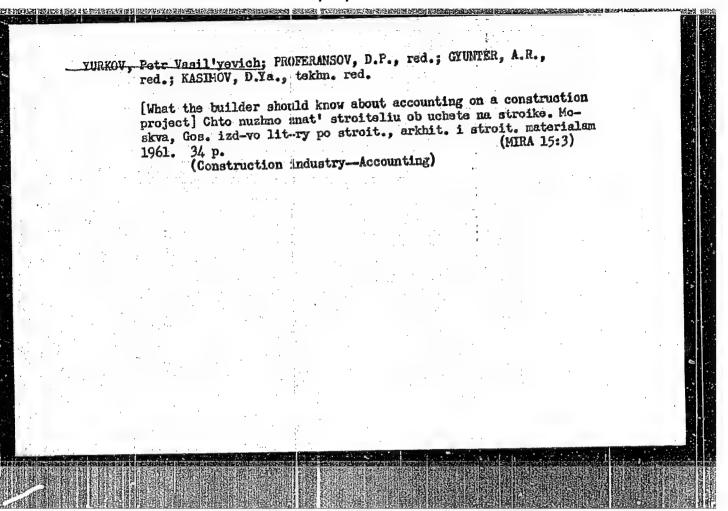
1. Kafedra detskikh infektaionnykh bolezney (zav. - dotsent G.V. Levina) Dnepropetrovskogo meditsinskoge instituta na baze infektsionnoy bol'nitsy. (INTROFURAZONE)

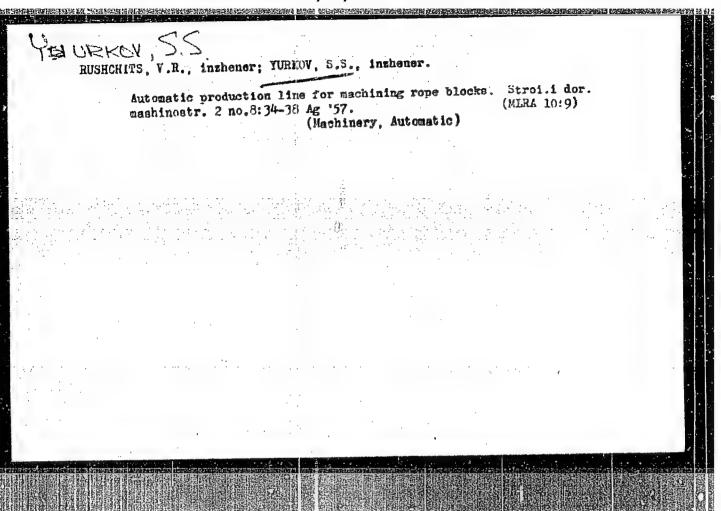
POPKOVA, Ye.G.; WERKOV, N.V.

Shortening the treatment time in dysentery patients with antibiotics and chemical preparations. Antibiotiki 8 nc.9:839-841 S '63. (MIRA 17:11)

1. Kafedra infektsionnykh bolezney (zav. Ye.G. Popkova) Zaporozhskogo instituta usovershenstvovaniya vrachey i kafedra detskikh infektsiy (zav. G.Y. Levina) Dnepropetrovskogo meditsinskogo instituta.







YURKOV, ENG. V. A.

Cement Industries

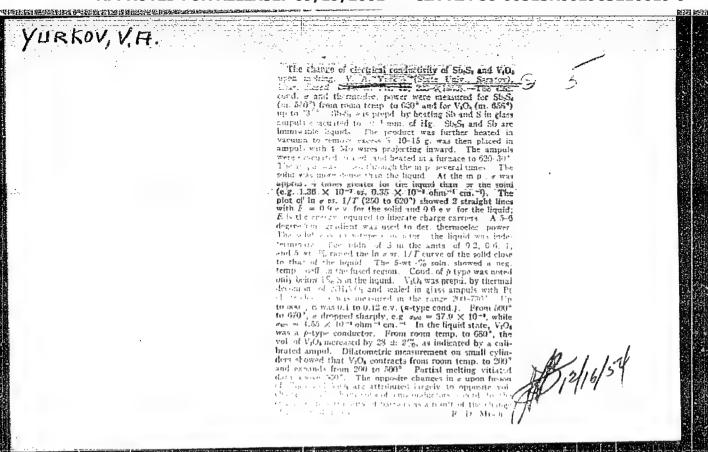
Decreasing the moisture content of slime at the "Spartak" plant. TSement 18 No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified

#### "APPROVED FOR RELEASE: 09/19/2001 C

CIA-RDP86-00513R001963210019-9

L 09243-67 EWT(1)\_ ACC NR. AP7002791 SOURCE CODE: UR/0139/66/000/004/0169/0171 AUTHOR: Yurkov, V. A.; Ivashchenko, Z. G. ORG: Arkhangel'sk Forestry Institute im. V. V. Kuybyshev (Arkhangel'skiy lesotekhnicheskiy institut) TITLE: Isobar for a roal gas SOURCE: IVUZ. Fizika, no. 4, 1966, 169-171 TOPIC TAGS: isobar, real gas ABSTRACT: A family of isobars is constructed for carbon dioxide gas, using van der Waals corrections. The typical isobar exhibits a region of two-phase states similar to that of the van der Waals isotherm. It is shown that critical values of Pk, Vk, and T. can be computed from the isobars. At 10 atm the volume of gas decreases linearly with temperature until a reversal occurs, similar to that of the van der Waals isotherm. In the reversal region the system is in a two-phase state: one consisting of super-cooled vapor, the other superheated liquid. With increasing pressure the reversal of the curve becomes smoother, until it finally disappears at the critical pressure of 100 atm. A comparison is made of the variation in pressure with decreasing temperature at constant volume. Orig. art. has: 2 figures and 2 formulas. /JPRS: 39,040/ SUB CODE: 20 / SUBM DATE: 20Mar65 / ORIG REF: 002



#### "APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963210019-9

YURKOV, V.

USSR/Physics - Semiconductivity

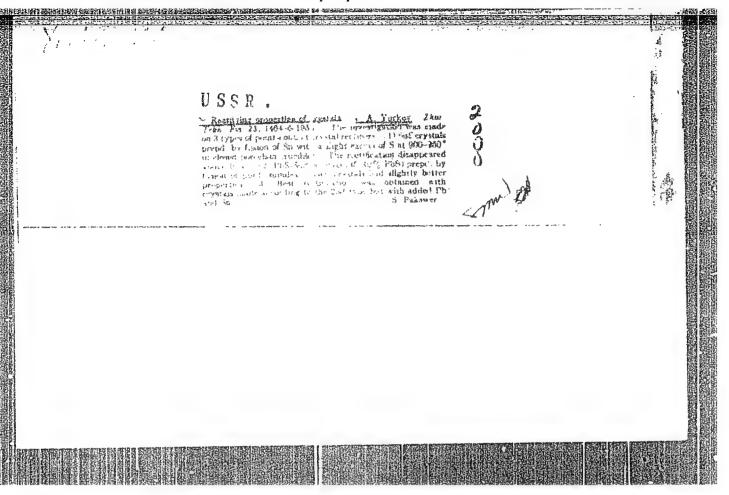
Oct 52

"Electric Properties of Sb2S3 and Bi2S3," G. Galkin, G. Dolgikh and V. Yurkov

"Zhur Tekh Fiz" Vol 22, No19, pp 1533-1539

Thermal relations of electric conductivity of samples Sb2S3 and Bi2S3 were studied. Magnitude and sign of temp coeff of electric conductivity of sulfides and thermoment of a metal and semiconductor paired essentially depend on thermal treatment of samples and on range of temp. Results of tests are interpreted within frames of zone theory of semiconductors. Indebted to Z. I. Kir yashkina and L. I. Baranova. Received h Jun 52.

PA 236T89



#### "APPROVED FOR RELEASE: 09/19/2001

#### CIA-RDP86-00513R001963210019-9

YURKOV, V.A.

Journal of the Institute of Alloys

Vol. 21 Part 7

Mar. 1954

Properties of Alloys

Properties of Alloys

Properties of Alloys

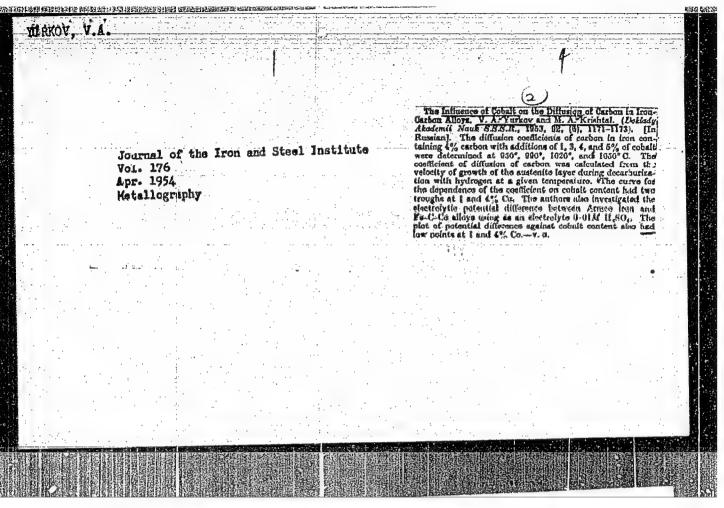
Alloys

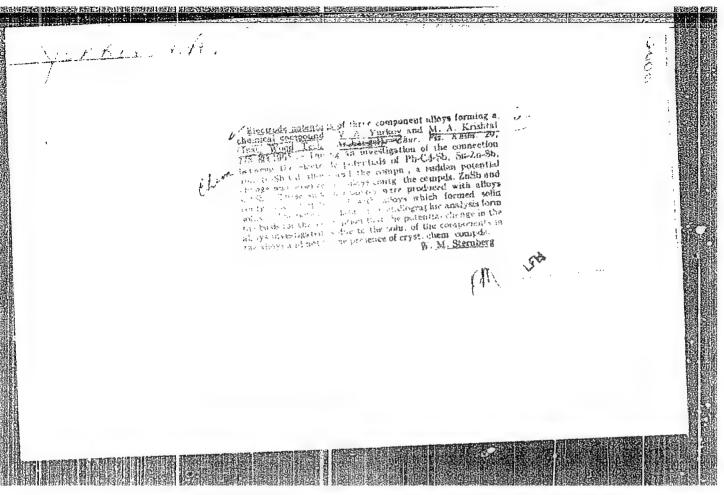
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#### CIA-RDP86-00513R001963210019-9

V, Y .. H, ...

USSR/Electricity - Semiconductors, G-3

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35074

Author: Yurkov, V. A., Alekseyeva, N. Ye.

Institution: Arkhangel'sk Forestry Institute, Arkhangel'sk

Thermal-Electric Properties of Cd-Sb Alloys Title:

Original

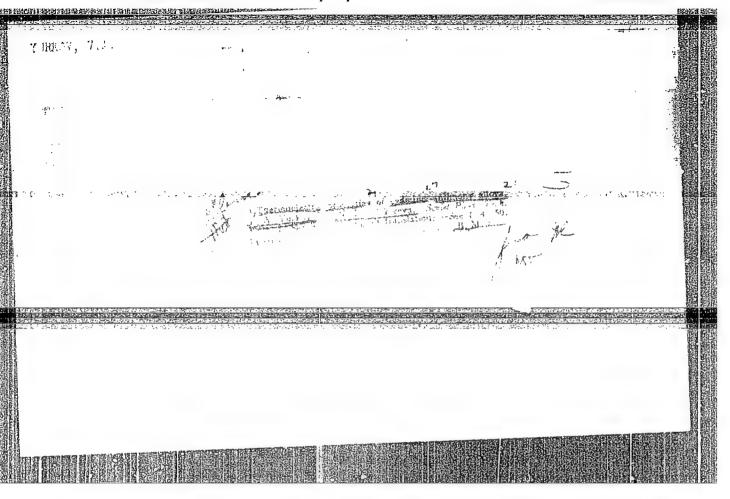
Zh. tekhn. fiziki, 1956, 26, No 4, 911-912 Periodical:

Abstract: A null method was used to measure the thermal-emf (a) of Cd-Sb alloys relative to Cu for concentrations of 0-100% Sb at junction temperatures of 10 to 100°. Two sharply pronounced maxima were obtained on the diagram of the composition of the alloy. One corresponds to the Cd Sb compound with C = 28.6 mv/deg, and the second to Cd-Sb with  $\alpha = 285$  mv/deg. For pure cadmium,  $\alpha = 1.66$  and for antimony X = 30 mv/deg. Based on these data it is assumed that the energy spectrum of CdSb has a structure that is usual for semiconductors, although for a final decision it is necessary to determine the temperature dependence of the electric conductivity.

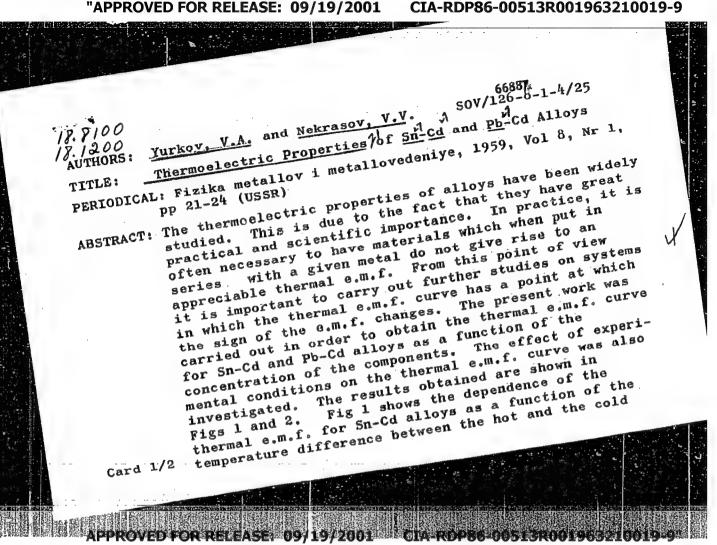
Card 1/1

ROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R00196321



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Thermoelectric Properties of Sn-Cd and Pb-Cd Alloys

junctions for different compositions (indicated in the figure caption). Fig 2 shows the dependence of the thermal e.m.f. of Sn-Cd alloys on composition for different temperature differences (indicated in the figure caption). Figs 3 and 4 show analogous plots for Pb-Cd alloys. As can be seen, sign inversion occurs in all the graphs. The position of the inversion point on the Cd concentration axis changes with the temperature difference. As the latter increases, the inversion point is displaced towards smaller cadmium concentrations. There are 4 figures and 7 Soviet references.

ASSOCIATION: Arkhangel'skiy lesotekhnicheskiy institut (Arkhangel'sk Forestry Institute)

SUBMITTED: March 3, 1958

Card 2/2

#### "APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963210019-9

sov/76-33-2-24/45

5(4) AUTHORS:

Yurkov, V. A., Nekrasov, V. V.

TITLE:

The Electrodic Potential of Cd-Sb(Elektrodnyye potentsialy

splavov Cd-Sb)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2,

pp 395 - 397 (USSR)

ABSTRACT:

Explanations concerning the relationship between the electrode potential of alloys and their composition (Refs 1-4) are of special interest in investigations on the electrochemical properties of metallic alloys. Thermal analyses of the system Cd-Sb showed that two compounds, Cd<sub>3</sub>Sb<sub>2</sub> and CdSb

(Ref 5) are present. Cd3Sb2 decomposes partially at lower

temperatures (Ref 6) while CdSb is stable and can be used as a semi-conductor in rectifiers and amplifiers (Ref 7). The work of this paper utilized a CZB-47 ballistic galvanometer (Ref 8), a MYe-4 standard sample set as condensor, and a PPTV-1 galvanometer. 12 alloys with the following compositions were studied: 5.7, 6, 10, 30, 45, 48, 50, 52, 58, 65, and 80% Sb, and 1 n H<sub>2</sub>SO<sub>4</sub>-, HCl-, and NaOH solutions were

Card 1/2

The Electrodic Potential of Cd-Sb

507/76-33-2-24/45

used as electrolytes. The addition of Sb causes the potential of the alloy to become more positive. The absolute value of the potential is higher in the alkali solution than in the acid solutions. 3 minima are indicated in the potential-composition diagram (Fig). The minimum at 7.5% Sb is considered to be a eutectic structure. The minimum at 52% Sb clearly represents the formation of the compound CdSb. The potential minimum at 80% has still to be explained by further investigations. Finally, M. A. Popova is thanked. There are 1 figure and 10 Soviet references.

ASSOCIATION: Arkhangel'skiy lesotekhnicheskiy institut (Arkhangel'sk

Technical Institute for Wood)

SUBMITTED: July 17, 1957

Card 2/2

5/139/62/000/001/023/032 E032/E114 Yurkov, V.A., and Ivoninskaya, L.A. Physical properties of CuAl2 PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, The authors report an experimental study of the physical properties of CuAl2.

This material is said to be interesting because its commentations and the commentations are properties of cuAl2. TITLE: interesting because its components are typical metals and it is used as the hardening base for many alloys. In the present work used as the nardening pase for many alloys. In the present we the authors have measured its density, microhardness, linear expansion, specific heat, electrical conductivity, and thermo TEXT: expansion, specific neat, electrical conductivity, and thermo-electric power. The composition of the specimens was 54.09% Cu electric power. The composition of the specimens was 74.09% Cu and 45.91% Al. The density (measured by a hydrostatic method) was found to be 3.98 g/cm<sup>3</sup> at 20 °C. The microhardness was man found to be 3.98 g/cm<sup>3</sup> at 20 °C. The microhardness was man found to be 3.98 g/cm<sup>3</sup> at 20 °C. The microhardness was man found to be 3.98 g/cm<sup>3</sup> at 20 °C. was round to be 3.90 g/cm, at 20 %. The micronaruness was measured with the TMT-3 (PMT-3) apparatus using loads between measured with the Inti-5 (PNI-5) apparatus using loads betwe 5 and 100 g. It was found that H20 = 535.0 kg/mm<sup>2</sup> and that the formula the formula card 1/3 APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9

5/139/62/000/001/023/032 E032/E114 Physical properties of CuAl2

was satisfied to a high degree of accuracy [P is the load (kg), d is the length of the diagonal of the impression (mm), n = 1.77 and a = 99.0]. The linear expansion was measured with a quartz dilatometer calibrated against spectroscopically pure copper. The average expansion coefficient between 20 and 300 °C copper. The average expansion coefficient between 20 and 300 °C was found to be 17.6 x 10-6 deg-1. The specific heat was measured by the method of cooling, as described by Ya.Ya. Turovskiy and G.M. Bartenev (Ref. 14: ZhTF, v. 10, 1940, 514). It was found that in the temperature range 50-300 °C the specific heat at constant programs (and get) deg-1) is given by heat at constant pressure (cal.g-1 dog-1) is given by

 $c_p = 0.10^{l_1} + 92 - 10^{-l_2} \sqrt{t}$ 

where t is the temperature of the specimen in Fig. 2 shows the resistivity (ohm.cm) as a function of temperature. No explanation was found of the nonlinearity of this function. Finally, the thermoelectric emf was measured as a function of temperature and the result is shown in Fig. 3, in which curve 1 refers to CuAl2 and curve 2 to Al. CuAl2 is a typical paramagnetic. Comparison of the properties of Cu and Al shows Card 2/4

Physical properties of CuAl2

5/139/62/000/001/023/032 E032/E114

that in many respects the properties of CuAl2 are intermediate between Cu and Al. The exceptions are the microhardness and the resistivity, which are considerably higher than those for Cu and Al.

There are 3 figures and 1 table.

ASSOCIATION: Arkhangel'skiy lesotekhnicheskiy institut imeni

V.V. Kuybysheva

(Arkhangel'sk Forestry Institute imeni

V.V. Kuybyshev)

SUBMITTED: Initially, June 25, 1960;

after revision, June 2, 1961

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5/159/62/000/002/011/028 E073/E335

26.2532

18.8100

Yurkov, V.A. and Nekrasov, V.V.

AUTHORS:

Physical properties of copper-antimony alloys

TITLE:

Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

PERIODICAL: no. 2, 1962, 62 - 69

The microhardness, thermal, electrical and thermoelectric properties of Cu<sub>3</sub>Sb-Cu<sub>2</sub>Sb were investigated in the

range of copper contents between 61.02 and 50.07 wt.% and antimony contents between 58.98 and 48.93 wt.%. Microhardness measurements with a load of 20 g have shown that the Mayer relations are obeyed with a satisfactory degree of accuracy. The microhardness may be greatly affected by the displacement of admixtures into the intercrystallite space and by the fact that the intercrystallite substance in high-purity materials is in a finely-disperse state. The microhardness of freshly cleaved surfaces of Cu<sub>2</sub>Sb single crystals was H<sub>20</sub> = 315 kg.mm<sup>2</sup> dependence of the coefficient of linear expansion  $\alpha \cdot 10^{-6}$ 

Card 1/8 3

S/139/62/000/002/011/028 E073/E335

Physical properties of .... of Cu<sub>3</sub>Sb-Cu<sub>2</sub>Sb alloys on the Cu<sub>2</sub>Sb content (mole.%) is plotted in Fig. 2. The electrical resistance () of all the alloys containing Cu,Sb decreased with annealing time and the decrease was the smaller the less Cu\_Sb the alloy contained. Fig. 3 on the annealing time (T, min) for pure Cu<sub>3</sub>Sb (Curve 1) and for an alloy containing shows the dependence of 40 mole. Cu2Sb. (Curve 2). The dependence of the steady-state resistance of alloys on temperature proved to be linear. Fig. 5 shows the dependence of the resistance (  $\times$  10<sup>-6</sup>  $\Omega$ , cm and of the temperature coefficient  $\beta \times 10^{-3}$  deg<sup>-1</sup> Curves 1 and 2 on the Cu<sub>2</sub>Sb content of Cu<sub>3</sub>Sb-Cu<sub>2</sub>Sb alloys. represent, respectively, the resistance isotherms at t=50 and 200 °C; curve 5 represents the dependence of the temperature coefficient on the composition. The thermo-electric properties were measured on the same specimens as the resistance. The dependence of the thermo-e.m.f.,  $\epsilon$ ,  $\mu V$ , on the difference in Card 2/8 3

S/139/62/000/002/011/028 E073/E335

temperature is plotted in Fig. 6 for the compounds  $Cu_3Sb$  (1),  $Cu_2Sb$  (2), 80%  $Cu_3Sb$  + 20%  $Cu_2Sb$  (3) and 20%  $Cu_3Sb$  + 80%  $Cu_2Sb$  (4). Fig. 7 gives the thermo-e.m.f.,  $\varepsilon$ ,  $\mu V$ , as a function of the  $Cu_3Sb$  content (mole.%) of  $Cu_3Sb$ - $Cu_2Sb$  alloys for the temperature differences  $\Delta t$  = 100, 150 and 200 °C, respectively.  $Cu_2Sb$  is a strongly paramagnetic substance, whilst  $Cu_3Sb$  is a diamagnetic substance. There are 7 figures and 2 tables.

ASSOCIATION:

Physical properties of ....

Arkhangel'skiy lesotekhnicheskiy institut imeni V.V. Kuybysheva (Archangel Forestry

Institute imeni V.V. Kuybyshev)

SUBMITTED:

June 25, 1960 (initially)

June 2, 1961 (after revision)

Card 3/8 ~

5/126/62/014/002/003/018 E114/E435

AUTHOR:

Yurkov, V.A.

Physical properties of Cu-Zn-Sb alloys

PERIODICAL: Fizika metallov i metallovedeniye, v.14, no.2, 1962,

The aims of the investigation were to ascertain the cause of the embrittlement of copper-zinc alloys caused by antimony additions and to study the properties of Cu-Zn-Sb alloys. of the pseudo-binary systems CuZn<sub>3</sub>-Zn<sub>3</sub>Sb<sub>2</sub>, Cu<sub>5</sub>Zn<sub>8</sub>-Zn<sub>3</sub>Sb<sub>2</sub> and of the pseudo-binary systems CuZn<sub>3</sub>-Zn<sub>3</sub>Sb<sub>2</sub>, Cu<sub>5</sub>Zn<sub>8</sub>-Zn<sub>3</sub>Sb<sub>2</sub> and CuZn-Zn<sub>3</sub>Sb<sub>2</sub> were studied. Alloys of each system containing 10, 20, 30, 40, 50, 60, 70, 80 and 90% by weight of Zn<sub>3</sub>Sb<sub>2</sub> were made by melting the pure components in evacuated flasks of low meltingpoint glass and placing the flask in a thick-walled steel crucible. As the temperature was increased the glass softened and the alloys were covered by a semi-liquid film of glass which protected them from sublimation or oxidation. The samples used for the tests were held at 350°C for 200 hours, followed by furnace cooling. The investigation involved the study of the microstructure, microhardness tests and determinations of density, linear Card 1/3

5/126/62/014/002/003/018 E114/E435

Physical properties of ..

expansion, electrical and thermoelectric properties. Metallographic analysis showed that the alloys of all three systems were two-phase. As would be expected from their higher melting points, the primary solidification which occurred was of the electron compounds. There were some indications that there was a very low mutual solubility of the components in the alloys. The solubility of  $Zn_3Sb_2$  in the  $\beta$ ,  $\gamma$  and  $\epsilon$  phases was less than 1%. The microhardness tests, which were carried out with loads of 5 to 100 g gave values for the microhardness of pure Zn<sub>3</sub>Sb<sub>2</sub> compound which were practically identical with those obtained for Sn3Sb2 in brasses. Density determinations gave values of 7.67 g/cm3 for CuZm3, 7.97 for Cu5Zn8, 8.14 for CuZn and 6.26 for The density of the alloys in all cases changed continuously, but not linearly, with composition. The variation with composition of the linear expansion of the alloys was linear with systems containing CuZn3 and Cu5Zn8, but nonlinear for the Cu-Zn system. The resistivity at 20°C was 10.5 x 10-6 ohm per cm<sup>3</sup> for CuZn<sub>3</sub>, 11.8 x 10-6 for Cu<sub>5</sub>Zn<sub>8</sub> and 5.6 x 10-6 for CuZn, but the value for Zn3Sb2 was considerably higher, being 1600 x 10-6 ohm/cm3 Card 2/3

Physical properties of ...

S/126/62/014/002/003/018 E114/E435

In the alloy systems, the rate of increase in resistance was nonlinear with increase in Zn<sub>3</sub>Sb<sub>2</sub> content. The thermoelectric properties were measured relative to copper and it was found that the emf produced with Zn<sub>3</sub>Sb<sub>2</sub> was opposite in sign to that produced by the other compounds. In all the alloy systems the thermal emf increased nonlinearly with increase in Zn<sub>3</sub>Sb<sub>2</sub> content of the alloy. From the metallographic examinations and microhardness determinations it was shown that the embrittlement resulting from antimony additions to brass is due to the compound Zn<sub>3</sub>Sb<sub>2</sub>, and 2 tables. There are 9 figures and

ASSOCIATION: Arkhangel'skiy lesotekhnicheskiy institut

(Archangel'sk Lumber Technical Institut)

SUBMITTED:

June 24, 1961 (initially)

January 2, 1962 (after revision)

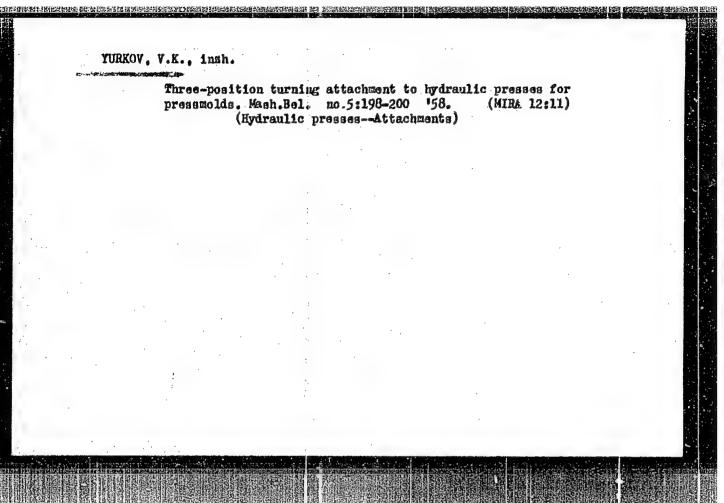
Card 3/3

Thermionic converter of thermal energy. Izv.vys.ucheb.zav.; fiz.
no.3134-36 '63. (MIRA 16:12)

1. Arkhangel'skiy lesotekhnicheskiy institut imeni Kuybysheva.

ENT(a)/EMP(t)/EMP(b) IJP(c) JD L 8089-66 ACC NR: AP5027134 SCURCE CODE: UR/0126/65/020/004/0512/0518 Butysheva, N. A.; Okolykhina, Archangel Wood Industry Institute im. V. (Arkhangel'skiy lesctekhnicheskiy institut) TITLE: Electrical and thermcelectrical properties of aluminum-zing alloys SOURCE: Figika metallov i metallovedeniye, v. 10, no. 4, 1965, 512-518. TOPIC TAGS: thermoelectric property, electric property, aluminum siloy, zinc alloy ABSTRACT: The test samples were 80-85 mm long with a diameter of 3.5 mm. They were annealed for 120 hours at a temperature of 250 + 5°3, and reclad in the furrage. The samples contained from 10 to 170% aluminum and 10 to 100% zinc. The resistance of the samples was mosaurad by the conventional potentiometric method. The thermoelectric mostyn forma ara mesan ned with pearling to norman. Mang manapta of the magnetic susceptibility (Paraday method) were made or cylindrical sanples with a beight of  $> \pm$  0.1 mm. The sample was placed in a magnetic field with an intensity of  $10^{15}$  corrected. The magnetic susceptibility was calculated by the formula: <u>539.292:546.3--19!621:47:587</u> IIDC:

re kappa, m, F, are the susceptibility, the mass, and the fing on the sample. The magnetic susceptibility of the sample lated with respect to a minum, for which kappa, was taken to make the sample and the sample lated with respect to a minum, for which kappa, was taken to make the sample and the sample an	orce s was
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ative. "The authors are deeply indebted to S Artyukhov f	or his
at help in the experiment," Orig. art. hes: 6 figures and 1	table.
CODE: MM, EM/ SUBM DATE: 17Dec64/ ORIG REF: 009/ OTH RE	F: 00



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

VERSHININA, V.V.; YURKOV, V.N.

Slags of nonferrous metallurgy as material for the manufacture of mine supports. Trudy Alt. GHNII AN Kazakh. SSR 15:53-59 '63.

(MIRA 17:3)

Yurkov V.N.

AUTHORS:

Volkov, K.D., Chief Engineer, Yergaliyev, A.Ye., Candidate of Technical Sciences, Yurkov, V.N., and Osipov, A.V., Mining

TITLE:

Experience of Exploitation of Block Nr 34 in the Belousovo Mine (Opyt otrabotki bloka Nr 34 na Belousovskom rudnike)

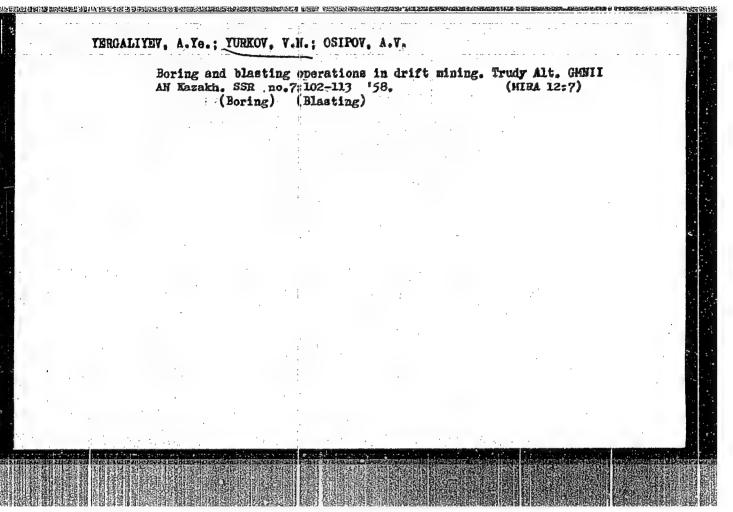
PERIODICAL: Gornyy Zhurnal, 1958, Nr 4, pp 19-21 (USSR)

ABSTRACT:

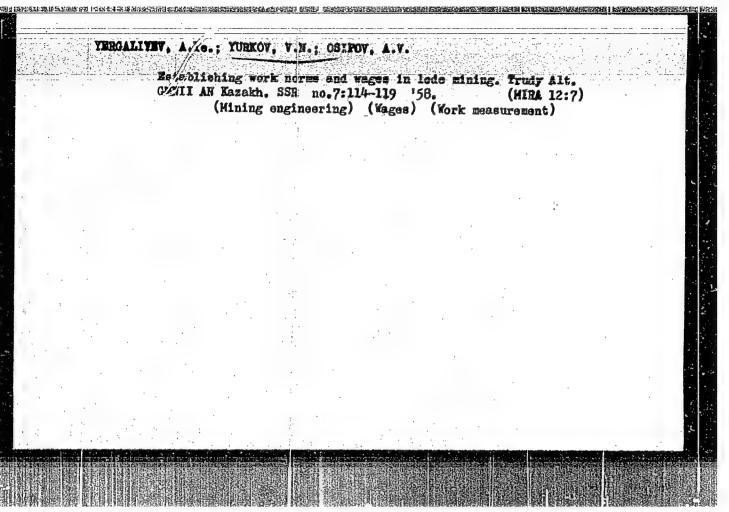
The authors describe how well the mining work of the block Nr. 34 of the Balousovo Mine was organized. The work was executed by a party of 12 men. This party executed all the mining work, the boring of blast holes and the maintenance of all mechanical appliances. There are 2 figures and 3 tables.

ASSOCIATION: Belousovskoye rudoupravleniye (Belousovo Mining Administration)

Card 1/1 1. Mines - Operation



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

YURROV, V. N.

118-58-3-11/21

AUTHORS:

Yurkov, V.N., and Belyashov, V.N., Engineers

TITLE:

A Loading and Transportation Aggregate (Pogruzochno-transportnyy agregat)

PERIODICAL:

Mekhanizatsiya Trudoyemkikh i Tyazhelykh Rabot, 1958. # 3. pp 30-31 (USSR)

ABSTRACT:

In order to speed up the transportation of rock and to raise labor efficiency, the engineers K.D. Volkov, B.M. Grudin and N.F. Baklitskiy of the Belousovskiy rudnik (Belousovo Mine) have designed a level-driving bunker train with a scraper conveyor of the type PML-5, which mechanizes completely the loading, transportation and unloading of excavated material.

The basic parts of the aggregate are: the bunker train, the scraper grane, the loading device and the electric locomotive. The bunker train consists of 15 cars, holding capacity is 25 cu m and the length of the train is 31 m.

There are 2 graphs.

AVAILABLE:

Library of Congress

Card 1/1

HELYASHOV, V.N., inzh.; YURKOV, V.N., inzh.

Mechanized operations in sinking small cross-section shafts.
Shakht.stroi. no.3:29-31 Kr '59. (MIRA 12:4)
(Shaft sinking-Equipment and supplies)

GRUDIN, B.M., insh.; YURKOV, V.H., insh.; BELTASHOV, V.H., insh.

What was made apparent by the use of roof bolting in mining.
Shakht.stroi. no.11:24-27 H '59. (MIRA 13:3)

1. Blubochanskeye shakhtostroyupravleniye. Vostochno-Kazakhstanskaya oblast'.

(Mine roof bolting)

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ZYRYANOV, T.P., insh.; TUROAMRAYEV, B.M., insh.; BELYASHOV, V.N., insh.; YURKOV, V.N., insh.

Use of rock ammonite in Altai Mountain mines. Shakht.stroi. 4 no.2:19-20 F '60. (MIRA 13:5) (Altai Mountains—Mining engineering) (Explosives)

TURKOV, V.N., insh.; ZYRYANOV, T.P., inzh.; KOROGOD, G.A., tekhnik; BELYASHOV,

V.B., inzh.

Working capacity of rod-type timber joints. Shakht. stroi. no.8:2125 Ag '50.

1. Altayskiy goruo-metallurgicheskiy mauchno-issledovatel'skiy institut
(for Iurkov). 2. Maslyanskiy rudnik Zyryanovskogo svintsovogo kombingta
(for Zyryanov, Korogod). 3. Glubochanskoyo shakhtostroyupravleniye ag
(for Belyashov).

(Mine timbering)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

YURKOV, V. N., Cand. Tech. Sci. (dise) "Investigation of Systems of Working and Clean Extraction Applicable to deposits of Irtysh Combinat," Alma-Atn, 1961, 18 pp. (Kazakh Polytech. Inst.) 200 copies (KL Supp 12-61, 277).

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

YERCALIYEV, Aodesh Yorgaliyevich; XURKOY, Viktor Nasarovich; OSIFOV.

Aleksandr Vasil yevich; ZTRYANOV, Timofey Pavlovich; KUZNETSOV,
Yu.N., red.; ROROKINA, Z.P., tekim. red.

[Systems of working ore deposits of minor and average thickness]
Sistemy razrabotki rudnykh mestorozhdenii maloi i srednei mosholmosti. Alma-Ata, Izd-vo Akad. nauk Kazskhskoi SSR, 1961. 205 p.

(MIRA 14:7)

(Mining engineering)

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YERGALIYEV, A. Re.; KUZNETSOV, I.Ye.; YURKOV, V.N.; POPENKO, M.Kh.;
OSIPOV, A.V.

Development of systems of mining at the Belousovka Hine. Trudy
Alt. Ginil An Kazakh, SSR 10:3-11 '61. (MIRA 14:9)

(Altai Mountains--Hining engineering)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"

YERGALIYEV, A.Ye.; BABINOVICH, V.L.; OSIPOV, A.V.; YURKOV, V.N.; KHUDYAKOV, M.T.

System of mining the Berezovskiy Mine. Trudy Alt. GMNII AN Kazakh. SSR 10:12-34 \*61. (MIRA 14:9)

(Altai Mountains--Mining engineering)

Mining flat pitching vein deposits. Trudy Alt. CMMII AM Eazakh.
SSR 10:35-63 \*61. (Mining engineering)

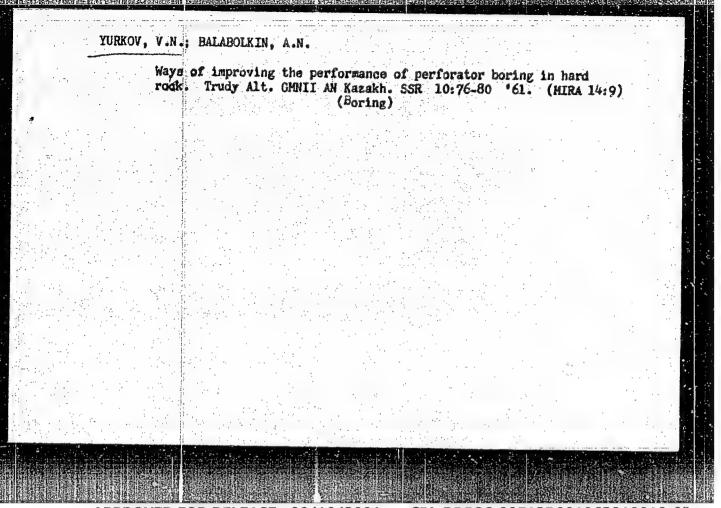
(Hining engineering)

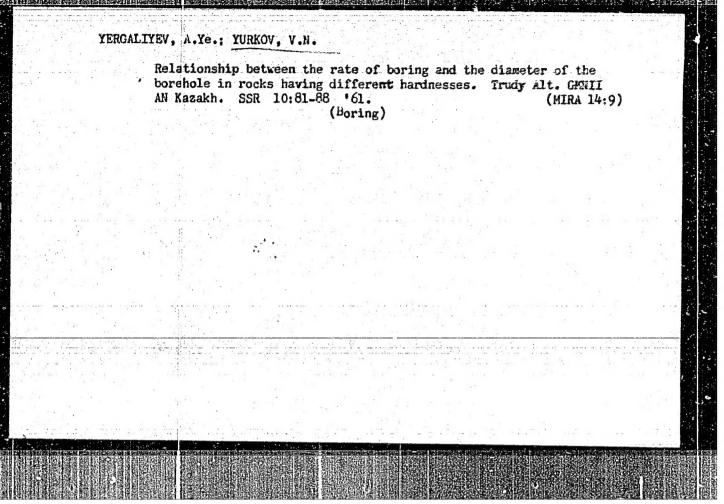
ZYRYANOV, T.P.: TURGAMBAYEV, B.M.; KARABACH, T.L.; YURKOV, V.N.

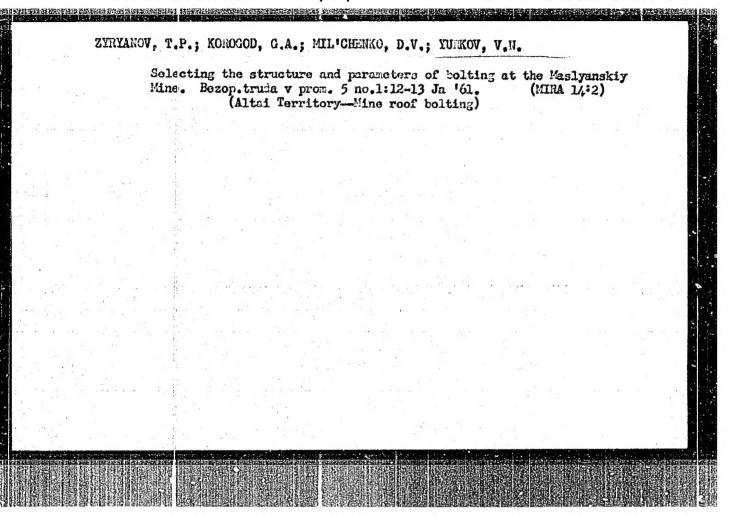
Practice of using the system of complete shrinkage stopping with breaking by means of deep holes at the Haslyanskiy Mine. Trudy Alt. (MNII AN Kazakh, SSR 10:64-69 \* 61. (MIRA 14:9) (Altai Mountains.—Stoping (Mining)) (Boring) (Blasting)

(Boring) (Blasting)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963210019-9"







Utilization of a sectional hole for sinking twin uprising shafts. Shakht.stroi. 6 no.1:19-21 Ja '62. (MIRA 14:12)

1. Clubocharskoye shakhtostroyupravleniye (for Belyashov).
2. Altayskiy gorno-metallurgidheskiy nauchno-issledovatel'skiy institut (for Yurkov).

(Coal mines and mining)

GRUDIN, B.M., inzh.; BELYASHOV, V.N., inzh.; YURKOV, V.N., inzh.

Use of a bunker train in drifting. Shekht.stroi. 6 no.4:4-5
Ap '62. (MIRA 15:4)

1. Kazgiprotsvetmet (for Grudin). 2. Altayskiy gornometallurgicheskly nauchno-isoledovatol'skiy institut AN KazSSR (for Belyashov,
Yurkov). (Kazakhstan—Mine railroads)